Appendix E. NHEXAS Questionnaires

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OMB Clearance #:2080-0053 Expires: July 31, 1998

NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY

DESCRIPTIVE QUESTIONNAIRE

Participant Identification Number

[Place Label Here]

Public reporting burden for this collection of information is estimated to average hours (or minutes response, and to require hours recordkeeping. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and review the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Chief, Information Policy B 2136, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460; and to the Off Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.	ving is Branc
INTERVIEWER/TECHNICIAN ID:	
Date Completed: / / July 14, 1995	

TABLE - RECORD OF CALLS

[THIS PAGE WILL CONTAIN THE INFORMATION NECESSARY TO IDENTIFY THE PARTICIPANT AND WILL BE DESIGNED BY EACH CONSORTIUM TO MEET ITS NEEDS. THIS IS AN EXAMPLE OF THE INFORMATION THAT WILL BE RECORDED.]

NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY DESCRIPTIVE QUESTIONNAIRE

State	County		
Census Tract	Block		
Street Address _		//Apt./Space #	
City, Zip		Zip code	
GPS Reading:	Latitude		
	Longitude		
INTERVIEWER/TE	CHNICIAN ID:		

Hello. I'm (NAME) with (NAME OF CONSORTIA MEMBER). We are conducting a survey in cooperation with the Environmental Protection Agency on exposures to substances in the environment in and around your home. You have been selected at random to participate in this survey. We mailed a letter to this address that explains the importance of your participation. Do you remember receiving this letter? (IF LETTER NOTRECEIVED, HAND COPY TO RESPONDENT. ALLOW TIME FOR READING. ANSWER ANY QUESTIONS.)

HOUSEHOLD ELIGIBILITY

D1.	VERIFY ADDRESS ON LABEL. CI	RCLE "1" OR RECORD CORRECTE	ED ADD	RESS BELOW.
	ADDRESS ON LABEL IS COR	RRECT1 →	GOT	O QUESTION D2
	NEW ADDRESS:			
	Street	/RFD		Apt. #
	City	State		ZIP Code
D2.	VERIFY THAT THE RESPONDENT VISITOR, BABY SITTER, HOUSE S HOUSEHOLD AT LEAST HALF TH IS NOT A RESIDENT OF THE HOU SPEAK TO SOMEONE ELIGIBLE T SCREENING RESPONDENT IS OBT RESPONDENT IS AVAILABLE, CIP	SITTER, ETC.), RESIDES WITH THE IE YEAR, AND IS AT LEAST 18 YE SEHOLD OR IS NOT 18 YEARS OR O ANSWER FOR THE HOUSEHOL FAINED, CIRCLE "1." IF NO ELIGII	E MEME ARS OL COLDEI D. IF AN	BERSOF THE D. IF RESPONDENT R, REQUEST TO NELIGIBLE
	ELIGIBLE SCREENING F	RESPONDENT	1 →	CONTINUE
	NO ELIGIBLE SCREENI	NG RESPONDENT	2 →	STOP. ENTER PENDIN G CODE 02 ON RECORD OF CALLS AND THANK RESPONDENT.

D3.	Is this property your primary residence or is it a vacation home or second home when the year? (CIRCLE ONE.)	e you live less than half
	PRIMARY RESIDENCE $1 \rightarrow$	CONTINUE
	VACATION/SECOND HOME	GO TO D9
D4.	Do more than 10 people live at this address? (CIRCLE "Y" OR "N.")	
	YESY \rightarrow	CONTINUE
	NO $N \rightarrow$	GO TO D9

HOUSEHOLD ROSTER

D5a. First, I would like to ask a few general questions about you and the other people who live here now. Just to be sure I account for everyone, please tell me the first names of all the people who currently live here. Let's begin with the person or persons who own the residence or pay the rent. (ENTER FIRST NAMES IN COLUMN B OF THE ROSTER. ENTER RELATIONSHIP TO HEAD IF FIRST NAMES ARE REFUSED.)

I have listed (NAMES). Is there anyone else living here now such as friends, roomers, or other people we might have overlooked? (IF SO, ADD THEM TO THE ROSTER.)

ASK QUESTION D5b FOR EACH LISTED INDIVIDUAL.

D5b.	Is (NAME) a full-time resident of this household, that is a person who lives in the residence year round
	except for short periods of time?

NO	E
NAME.	R AND IE

ASK QUESTIONS D5c-k FOR EACH LISTED INDIVIDUAL. RECORD RESPONSE IN ROSTER.

- D5c. CIRCLE THE SEX ("M" FOR MALE OR "F" FOR FEMALE) OF EACH PERSON IN COLUMN C. ASK IF NOT OBVIOUS.
- D5d. What is (NAME's) year of birth? (ENTER 2 DIGITS IN COLUMN D.)
- D5e. What is (NAME's) race? (READ CHOICES AND CIRCLE ONE NUMBER IN COLUMN E.)

White	1
Black or African-American	
American Indian	3
Eskimo or Aleut	4
Asian or Pacific Islander	5
Some other race (Specify:)6
DON'T KNOW	
REFUSED	RE

D5f.	Is (NAME) of H	Hispanic or Spanish orig	in? (CIRCLE RESPON	SE IN COLUMN F.)
		VES		1
D5g.	COLUMN G FOR	R THE HIGHEST LEVI	EL COMPLETED OR D	AND CIRCLE ONE NUMBER IN DEGREE RECEIVED. IF CURRENTLY DE ATTENDED OR HIGHEST DEGREE
		No schooling completed	l or	
		kindergarten only		1
		Primary or middle scho-		
		(Grade 1 through 8)	•••••	2
		Some high school (Grad	le 9 through 11)	3
			Grade 12 or GED)	
			al school	
		_		
		DON'T KNOW		DK
D5h.	Does (NAME)	smoke tobacco products	? (CIRCLE RESPONS	E IN COLUMN H.)
		YES		Y → CONTINUED
				N \rightarrow GO TO D5j
				DK \rightarrow GO TO D5j
D5i.	Does (NAME)	smoke inside the house?	(CIRCLE RESPONSE	IN COLUMN I.)
		VES		V
D5j.	Does (NAME) wo	ork outside the home? (CIRCLE RESPONSE IN	N COLUMN?)
		VES		V
D5k.	Does (NAME) atte	nd school or daycare ou	tside the home? (CIRC)	LE RESPONSE IN COLUMN K)
		YES		Y
		NO		N
		DON'T KNOW		DK

HOUSE CHARACTERISTICS

D6.	I would now like to ask you a few questions about your home. Is your home (READ CHOICES AND CIRCLE ONE. INCLUDE ALL APARTMENTS, FLATS, ETC., EVEN IF VACANT.)
	A mobile home or trailer1
	A one-family house detached from any
	other house2
	A one-family house attached to one or
	more houses
	A building with 2 apartments4
	A building with 3 or 4 apartments5
	A building with 5 to 9 apartments6
	A building with 10 to 19 apartments7
	A building with 20 to 49 apartments8
	A building with 50 or more apartments9
	Other (Specify:)10
D7.	How many rooms are there in this house or apartment? Do NOT count bathrooms, porches, balconies, foyers, or halls.
	Rooms
D8.	Is this house or apartment (READ CHOICES AND CIRCLE ONE.)
	Owned by you or someone in this household
	with a mortgage or loan?1
	Owned by you or someone in this household
	and clear (without a mortgage)?2
	Rented for cash rent?3
	Occupied without payment of cash rent?4
	DON'T KNOWDK

RESPONDENT SELECTION

D9.	a.	WHAT IS THE ROSTER LINE NUMBER OF THE SELECTED PARTICIPAN ONE IS SELECTED AND GO TO QUESTION D10.	T? ENTER "00" IF NO
	b.	OBTAIN FULL NAME OF SELECTED PARTICIPANT.	
		[NOTE: INSTRUCTIONS SPECIFIC TO EACH CONSORTIUM FOR OBTAIN CONSENT, SETTING UP APPOINTMENTS AND COMPLETING THE BASE QUESTIONNAIRE WILL BE ENTERED HERE.]	
		FULL NAME OF PARTICIPANT	
	c.	IF PARTICIPANT IS UNDER 18, OBTAIN FULL NAME OF PARTICIPANT	S GUARDIAN.
		FULL NAME OF GUARDIAN	
D10.	IF I	NO ONE SELECTED: My supervisor needs to call some of the people I talk with ark.	in order to verify my
	IF I	PARTICIPANT SELECTED: We may need to call you to verify the appointments.	
	a.	Do you have a telephone in this house or apartment?	
		YES	CONTINUE GO TO D10c GO TO D10c STOP ENTER FINAL RESULT CODE AND THANK RESPONDENT
	b.	What is the telephone number, starting with the area code?	
		()	GO TO D11

c. Is there a telephone on which you can receive calls?	
YESY \rightarrow	CONTINUE
NO $N \rightarrow$	STOP ENTER FINAL RESULT
REFUSEDRE \rightarrow	CODE AND THANK RESPONDENT
d. What is the telephone number, starting with the area code?	
()	GO TO D11

ENTER FINAL RESULT CODE AND THANK RESPONDENT.

HOUSEHOLD ROSTER

A	В	С	D	Е	F	G	Н	I	J	K
D	Name/Relation	G	Year of			School	G 1 0	Smoke	Work Outside	School/ Daycare Outside
Roster	to Head	Sex	Birth	Race	Hispanic?	Completed?	Smoke?	Inside	Home?	Home?
01		ΜF		1 2 3 4 5 6 DK RE	Y N DK RE	1 2 3 4 5 6 7 DK	Y N DK	Y N DK	Y N DK	Y N DK
02		M F		1 2 3 4 5 6 DK RE	Y N DK RE	1234567DK	Y N DK	Y N DK	Y N DK	Y N DK
03		M F		1 2 3 4 5 6 DK RE	Y N DK RE	1234567DK	Y N DK	Y N DK	Y N DK	Y N DK
04		M F		1 2 3 4 5 6 DK RE	Y N DK RE	1234567DK	Y N DK	Y N DK	Y N DK	Y N DK
05		M F		1 2 3 4 5 6 DK RE	Y N DK RE	1234567DK	Y N DK	Y N DK	Y N DK	Y N DK
06		M F		1 2 3 4 5 6 DK RE	Y N DK RE	1234567DK	Y N DK	Y N DK	Y N DK	Y N DK
07		M F		1 2 3 4 5 6 DK RE	Y N DK RE	1234567DK	Y N DK	Y N DK	Y N DK	Y N DK
08		M F		1 2 3 4 5 6 DK RE	Y N DK RE	1234567DK	Y N DK	Y N DK	Y N DK	Y N DK
09		M F		1 2 3 4 5 6 DK RE	Y N DK RE	1234567DK	Y N DK	Y N DK	Y N DK	Y N DK
10		M F		1 2 3 4 5 6 DK RE	Y N DK RE	1234567DK	Y N DK	Y N DK	Y N DK	Y N DK

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NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY

BASELINE QUESTIONNAIRE

Participant Identification Number

[Place Label Here]

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INTERVIEWER/TECHNICIAN ID:	_
Date Completed:/	July 14, 1995

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NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY BASELINE QUESTIONNAIRE

DESIGNATED PARTICIPANT	
(If the participant is less than 10 years old, whe designated respondent?)	hat is the name of the individual who is providing the answers for
Name of Participant	
Completed by	(if other than participant)
Relation to participant	
Home Phone I	Date:/
LOCATION DATA (Technician Completedadd	ress/ID label)
State County	
Census Tract Block	
Street Address	Apt./Space #
City, Zip	Zip code
INTERVIEWER/TECHNICIAN ID:	Date Completed: /

DEMOGRAPHICS

These first questions ask about (you/this child). REMIND PARENT/GUARDIAN TO RESPOND FORCHILD.

B1.	What is the highest level of school (you have/this child has) completed? (READ CHOICESAND CIRCLE ONE.) IF CURRENTLY ENROLLED, MARK THE LEVEL OF PREVIOUS GRADE ATTENDED OR HIGHEST DEGREE RECEIVED.
	No school completed or Kindergarten only
B2.	CIRCLE SEX OF PARTICIPANT.
	MALE
В3.	What is (your/his/her) date of birth? / Month Day Year
B4.	How tall (are you/is he/she) without shoes? ft inches
B5.	How much (do you/does he/she) weigh? pounds
	QUESTIONS B6 AND B7 ONLY IF RESPONDENT IS 10 YEARS OLD OR MORE. IF RESPONDENT IS THAN 10, GO TO B8.
В6а.	(Do you/Does he/she) currently smoke to bacco products or use smokeless to bacco products? (CIRCLE "Y" OR "N.")
	YES
B6b.	(Have you/Has he/she) ever smoked to bacco products or used smokeless to bacco products? (CIRCLE "Y" OR "N")
	YES

B6c.	How long ago did (you/he/she) stop using tobacco products? (ENTER NUMBER OR "DK" FOR DON'I KNOW.) → GO TO B8
В7а.	On average, how many <i>cigarettes</i> (do you/does/he/she) smoke <i>per day</i> ? (READ CHOICE AND CIRCLE ONE.)
	None1
	Less than ½ pack2
	½ pack or more, but less than 1 pack3
	1 pack or more, but less than 1½ packs4
	1½ packs or more, but less than 2 packs5
	2 or more packs6
	Occasional (social smoker)7
	DON'T KNOWDK
B7b.	On average, how many <i>cigars</i> (do you/does/he/she) smoke per day? (ENTER NUMBER OR "DK" FOR DON'T KNOW.)
В7с.	On average, how many <i>pipesful of tobacco</i> (do you/does/he/she) smoke per day? (ENTER NUMBER OF "DK" FOR DON'T KNOW.)
B7d.	On average, how many timer per day (do you/does/he/she) use <i>smokeless tobacco products</i> ? (ENTER NUMBER OR "DK" FOR DON'T KNOW.)

PERSONAL EXPOSURE ACTIVITIES

These next few questions are about things that happen at your home, on the job, or in school, and food (you/he/she) eat(s) that might put (you/him/her) in touch with the chemicals we are studying. Some of these questions ask about different periods of time. Some ask about the *past month*, some ask about the *past 3 months*, and some ask about the *past 6 months*. In order to help make these time periods clear, please think about something (you/he/she) did or which happened to (you/him/her) about *1 month ago*, *3 months ago*, and *6 months ago*. For example, finished school, got married, had a baby. Please tell me what each event was so that I can use them later. (RECORD EVENTS HERE AND USE AS NEEDEDDURING INTERVIEW.)

	1 MONTH EVENT:
	3 MONTH EVENT:
	6 MONTH EVENT:
В8.	On average for the <i>past month</i> , how many (hours/minutes) <i>per week</i> did (you/he/she) spend?(IF LESS THAN 1 HOUR, ROUND TO THE NEAREST QUARTER HOUR; IF BETWEEN 1HOUR AND 10 HOURS, ROUND TO THE NEAREST HOUR; IF GREATER THAN 10 HOURS, ROUND TO THE NEAREST 10 HOURS; e.g., 10, 20, 30, 40, 50 HOURS. ENTER NUMBER AND CIRCLE MINUTES OR HOURS.)
	a. Inside (your/his/her) home with someone who was smoking tobacco? (min/hr)
	b. At work with someone who was smoking tobacco? (min/hr)
	c. In a car, bus, van, or other enclosed vehicle with someone who was smoking tobacco? (min/hr)
	d. In any other indoor or enclosed location with someone who was smoking tobacco? (min/hr)
B9a	During the <i>past month</i> , has anyone, including you, smoked inside your home? (CIRCLE ONE.)
	YES
B9b.	During the past month, how many people, including visitors, smoked tobacco inside your home. (ENTER NUMBER OR "DK" FOR DON'T KNOW.)

he <i>past month</i> , on how many days de CHOICE AND CIRCLE ONE.)	id (you/he/she) paint walls, furniture, cars or other
Never	1
1-3 days per month	
1-2 days per month	
3-6 days per week	
Daily	
DON'T KNOW	DK
he <i>past month</i> , on how many days di CHOICE AND CIRCLE ONE.)	d (you/he/she) use chemical paint strippers to remove
Never	1
1-3 days per month	2
1-2 days per week	
3-6 days per week	
Daily	
DON'T KNOW	DK
un or sanding? (READ CHOICE AN	,
Never	
1-3 days per month	2
1-2 days per week	3
3-6 days per week	
Daily	5
DON'T KNOW	DK
	d you/did he/she) use lead solder to solderpipes, do EAD CHOICES AND CIRCLE ONE.)
Never	1
1-2 days	
1-3 days per month	
1-2 days per week	
3-7 days per week	
DON'T KNOW	
three months, on how many days (di lry? (READ CHOICES AND CIRCI	id you/did he/she) use lead-based oil paint to paint .E ONE.)
Never	1
1-2 days	
1-3 days per month	
1-2 days per week	
3-7 days per week	
DON'T KNOW	DK

B11c.	During the <i>past three months</i> , on how many days (did you/did he/she) mold lead into fishing sinkers, bullets or other objects? (READ CHOICES AND CIRCLE ONE.)	١,
	Never1	
	1-2 days	
	1-3 days per month	
	1-2 days per week3	
	3-7 days per week4	
	DON'T KNOWDK	
B12a.	During the <i>past three months</i> , on how many days (did you/did he/she) eat fresh fruits or vegetables grown as your home? (READ CHOICES AND CIRCLE ONE.)	t
	Never1	
	1-2 days2	
	1-3 days per month	
	1-2 days per week	
	3-7 days per week	
	DON'T KNOWDK	
	DON I KNOWDK	
B12b.	During the <i>past three months</i> , on how many days (did you/did he/she) eat canned or preserved fruits or vegetables that were grown at your home? (READ CHOICES AND CIRCLE ONE.)	
	Never1	
	1-2 days2	
	1-3 days per month	
	1-2 days per week	
	3-7 days per week	
	DON'T KNOWDK	
	DON I KNOWDK	
B13.	Do you currently work full time or part time at any location away from your home? (CIRCLE "Y" OR "N." INCLUDE WORKING FOR OTHERS, SELF-EMPLOYED, AND VOLUNTEER WORK. INCLUDE THOSE WHO WORK OUT OF A HOME OFFICE IF THEY WORK PART OF THE TIME AWAY FROM HOME.)	
	YESY \rightarrow CONTINUE	
	NON \rightarrow GO TO B17a	
	1\\0\\1\\0.\\0.\\0.\\0.\\0.\\0.\\0.\	
B14a.	On average for the <i>past month</i> , how many hours <i>per week</i> did (you/he/she) work at (your/his/her) primary job? (INCLUDE WEEKS WHERE TIME WAS TAKEN OFF FOR VACATION, SICKNESS, ETC. IF LESS THAN 10 HOURS, ROUND TO THE NEAREST HOUR; IF GREATER THAN 10 HOURS, ROUND TO THE NEAREST 10 HOURS; e.g., 10, 20, 30, 40, 50 HOURS).	
	hours/week	
	i. On average, how many of these hours were spent working at home?	
	hours/week	

B14b.	b. What kind of business or industry is this? (For example, manufacturing, retail store, government, farm, school.) c. What is (your/his/her) job title? (For example, electrical engineer, stock clerk, typist, farmer.) d. What activities (do you/does he/she) perform most often as part of (your/his/her) duties at that job? (For example, typing, keeping account books, filing, selling cars, operating printing press, finishing concrete.)				
B14c.					
B14d.					
B14e.	(Do you/Does he/she) wear protective clothing while at (yo	our/his/her) primary job? (CIRCLE "Y" OR "N.")			
	YES				
	NO	N \rightarrow GO TO B14g			
B14f.	Which types of protective clothing (do you/does he/she) we CHOICES AND CIRCLE ALL THAT APPLY.)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	Gloves Overalls				
	Overcoat (e.g. lab coat; smock)				
	Respirator				
	Other (Specify: DON'T KNOW	DK			
B14g.	While at (your/his/her) primary job, (do you/does he/she) c (READ CHOICES AND CIRCLE ALL THAT APPLY.)	come into contact at least once a week with?			
	Saw dust	1			
	Road dust	2			
	Fiberglass				
	Silica (sand blasting)				
	Mine dust				
	Surface dust in office, classroom, store	6			
	Other known type of dust) 7			
	(Specify:Unknown type of dust)/ 8			
	No contact with dust				
	TVO COHIACI WIIII QUSI				

B14h.		er) primary job, (do you/does he/she) come into AND CIRCLE ALL THAT APPLY.)	contac	et at least once a week with?
	W	elding fumes	1	
	Sc	older or flux fumes	2	
		astic fumes		
		int fumes (include varnish, shellac, etc.)		
		asoline or diesel fumes		
	Ot	ther known type of fumes, smoke, gas, or vapors	S	
	Uı	(Specify:) hknown type of fumes, smoke, gas, or vapors	7	
		o contact with fumes, smoke, gas, or vapors		
B14i.		e) come into contact with chemicals used to kill/his/her) primary job? (CIRCLE "Y" OR "N.")	l insects	s, rodents, or weeds at least once a
	Y	ES	Y -	→ CONTINUE
		O		
<i>D</i> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	job? (READ CHOICE)	rpes of chemicals (do you/does he/she) come int CES AND CIRCLE ALL THAT APPLY.)	1	ter wille ar (jour/ms/ner/primary
		sect Repellents		
	F	nlorpyrifos, Dursban, Lorsban, Trichlorpyrphos Pyrinex, Dowco 179, Brodan		
		alathion, Cythion, Chemathion, Malaspray Zithiol	4	
		azinon; D-100; D-500		
		arbaryl, Sevin, Tricarnas, UC 7744	6	
		her known termiticides		
	(Specify:)	7	
		her known pesticides/insecticides Specify:)	8	
	A1	razine, Aatrex, Vectal SC, Atratol, Gesaprim, Primatol A		
		ther known herbicides,		
	(Specify:)	10	
	Fu	ingicides	11	
		nknown type of pesticide, insecticide,		
	h	erbicide, or fungicide	DK	
B15.	Do you have a secon	nd job? (CIRCLE "Y" OR "N.")		
		ES		→ CONTINUE
	N	Э	N -	→ GO TO B17a

B16a.	On average for the <i>past month</i> , how many hours <i>per week</i> did (you/he/she) work at (your/his/her) second job? (INCLUDE WEEKS WHERE TIME WAS TAKEN OFF FOR VACATION, SICKNESS, ETC. IF LESS THAN 10 HOURS, ROUND TO THE NEAREST HOUR; IF GREATER THAN 10 HOURS, ROUND TO THE NEAREST 10 HOURS; e.g., 10, 20, 30, 40, 50 HOURS).				
	hours/week				
	i. On average, how many of these hours were spent working at home?				
	hours/week				
B16b.	What kind of business or industry is this? (For example, manufacturing, retail store, government, farm, school.)				
B16c.	What is (your/his/her) job title? (For example, electrical engineer, stock clerk, typist, farmer.)				
B16d.	What activities (do you/does he/she) perform most often as part of (your/his/her) duties at that job? (For example, typing, keeping account books, filing, selling cars, operating printing press, finishing concrete.)				
B16e.	(Do you/Does he/she) regularly wear protective clothing while at (your/his/her) second job?				
	YES				
B16f.	Which types of protective clothing (do you/does he/she) wear while at (your/his/her) second job? (READ CHOICES AND CIRCLE ALL THAT APPLY.)				
	Gloves 1 Overalls 2 Overcoat (e.g., lab coat, smock) 3 Respirator 4 Other (Specify:) Don't Know DK				

B16g. While at (your/his/her) second job, (do you/does he/she) come into c (READ CHOICES AND CIRCLE ALL THAT APPLY.)	ontact at least once a week with?
Saw dust	1
Road dust	
Fiberglass	-
Silica (sand blasting)	
Mine dust	
Surface dues in office, classroom, store	
Other known type of dust	
(Specify:)	.7
Unknown type of dust	.8
No contact with dust	
Welding fumes	2 3 4 5
No contact with fumes, smoke, gas, or vapors	.8
B16i. (Do you/Does he/she) come into contact with chemicals used to kill p week while at (your/his/her) second job? (CIRCLE "Y" OR "N.")	ests, rodents, or weeds at least once a
YES	Y → CONTINUE
NO	
110	30 10 11/49

B16j.	If yes, with which types of chemicals (do you/does he/she) come is job? (READ CHOICES AND CIRCLE ALL THAT APPLY.)	nto contact while at (your/his/her) second
	Raid/Black Flag	1
	Off	
	Chlorpyrifos, Dursban, Lorsban, Trichlorpyrpho	
	Malathion, Cythion, Chemathion, Malaspray	55
	Zithiol	4
	Diazinon; D-100; D-500	
	Carbaryl, Sevin, Tricarnas, UC 7744	
	Other known termiticdes	
	(Specify:) Other known pesticides/insecticides	7
	Other known pesticides/insecticides	
	(Specify:)	8
	(Specify:) Atrazine, Aatrex, Vectal SC, Atratol,	
	Gesaprim, Primatol A	9
	Other known herbicides	
	(Specify:)	10
	Fungicides	11
	Unknown type of pesticide, insecticide,	D.V.
	herbicide, or fungicide	DK
	ELEMENTARY AND SECONDARY SCHOOLS, COLLEGES ASCHOOL, TRADE AND VOCATIONAL SCHOOLS.)	AND UNIVERSITIES, BUSINESS
	YES	Y → CONTINUE
	NO	N \rightarrow GO TO B18
B17b.	On average for the <i>past month</i> , how many hours <i>per week</i> did (you (INCLUDE WEEKS WHERE TIME WAS TAKEN OFF FOR VATHAN 10 HOURS, ROUND TO THE NEAREST HOUR; IF GRITHE NEAREST 10 HOURS; e.g., 10, 20, 30, 40, 50 HOURS). hours/week	ACATION, SICKNESS, ETC. IF LESS
B18.	FOR CHILDREN LESS THAN 16 YEARS OF AGE, CONTINUE GO TO QUESTION B19.	E WITH QUESTION B18a. OTHERWISE
	B18a. On average for the <i>past month</i> , how many hours <i>per week</i> of for example, at daycare, in a preschool, or at a neighbor's how ROUND TO THE NEAREST HOUR; IF GREATER THAN NEAREST 10 HOURS; e.g., 10, 20, 30, 40, 50 HOURS).	ouse? (IF LESS THAN 10 HOURS,
	hours/week IF ZERO, GO TO B19	

	Another home		
	Daycare center, nursery school, or pr	eschool2	
	Other school	3	
	Other (Specify:)4	
B19.	What methods of transportation did (you/he/she) use to (READ CHOICES AND CIRCLE ALL THAT APPLY	7.)	ustsix months?
B19.	(READ CHOICES AND CIRCLE ALL THAT APPLY Car, truck, van, or taxi cab	1	ustsix months?
B19.	(READ CHOICES AND CIRCLE ALL THAT APPLY Car, truck, van, or taxi cab Bus, trolley bus, or trolley car	1 2	ustsix months?
B19.	(READ CHOICES AND CIRCLE ALL THAT APPLY Car, truck, van, or taxi cab Bus, trolley bus, or trolley car Train, subway or elevated train	1 2 3	ustsix months?
B19.	Car, truck, van, or taxi cab		nstsix months?
B19.	(READ CHOICES AND CIRCLE ALL THAT APPLY Car, truck, van, or taxi cab Bus, trolley bus, or trolley car Train, subway or elevated train		nstsix months?

B18b. Where does (he/she) spend this time away from home? (READ CHOICES AND CIRCLE ALL

HEALTH STATUS

B20.	Overall, how would you describe (your/his/her) curr	ent health? (READ CHOICES ANDCIRCLE ONE.)
	Good	1
	Fair	2

B21. (Have you/Has he/she) ever had any of the following? (READ CHOICES AND CIRCLE "Y"OR "N.". IF YES, PLEASE ASK REST OF QUESTION. IF PARTICIPANT IS UNCERTAIN, CIRCLE "N" AND CONTINUE WITH THE NEXT CONDITION.)

			Were you told (you/he/she) had this by a doctor or nurse?	(Do you/Does he/she) have it now?	How old (were you/was he/she) when the doctor or nurse first told you?
a	Diabetes?	$\stackrel{Y}{\rightarrow}$ N	Y→ N	Y→ N	
b	Neuromuscular disease, such as Polio, Multiple Sclerosis, Muscular Dystrophy?	$Y \rightarrow N$	$Y \rightarrow N$	$Y \rightarrow N$	
c	Asthma, allergies?	$Y \rightarrow N$	$Y \rightarrow N$	$Y \rightarrow N$	
d	Ulcer?	$Y \rightarrow N$	$Y \rightarrow N$	$Y \rightarrow N$	
e	Any disease of the esophagus?	$Y \rightarrow N$	$Y \rightarrow N$	$Y \rightarrow N$	
f	Gastritis?	$Y \rightarrow N$	$Y \rightarrow N$	$Y \rightarrow N$	
g	FREQUENT indigestion?	$Y \rightarrow N$	$Y \rightarrow N$	$\begin{array}{c} N \\ Y \rightarrow \\ N \end{array}$	
h	Any other stomach trouble?	$Y \rightarrow N$	$Y \rightarrow N$	$\begin{array}{c} N \\ Y \rightarrow \\ N \end{array}$	
	IF YES, PLEASE SPECIFY:				
i	Enteritis?	$\stackrel{Y}{\rightarrow}$ N	$\stackrel{Y\rightarrow}{N}$	$\stackrel{Y\rightarrow}{N}$	
j	Diverticulitis?	$Y \rightarrow$	$Y \rightarrow$	$Y \rightarrow$	
k	Colitis?	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	$\begin{matrix} N \\ Y \rightarrow \end{matrix}$	
1	A spastic colon?	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	$\begin{matrix} N \\ Y \rightarrow \end{matrix}$	
m	FREQUENT constipation?	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	$\begin{matrix} N \\ Y \rightarrow \end{matrix}$	
n	Any other intestinal or bowel trouble?	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	
	IF YES, PLEASE SPECIFY:	N	N	N	
o	Cirrhosis of the liver?	$Y \rightarrow$	$Y \rightarrow$	$Y \rightarrow$	
p	Fatty liver?	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	
q	Hepatitis?	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	$\begin{array}{c} N \\ Y \rightarrow \end{array}$	$\begin{matrix} N \\ Y \rightarrow \end{matrix}$	
r	Yellow janudice?	$\begin{array}{c} N \\ Y \rightarrow \\ N \end{array}$	$\begin{array}{c} N \\ Y \rightarrow \\ N \end{array}$	$\begin{array}{c} N \\ Y \rightarrow \\ N \end{array}$	

			Were you told (you/he/she) had this by a doctor or nurse?	(Do you/Does he/she) have it now?	How old (were you/was he/she) when the doctor or nurse first told you?
S	Any other liver trouble?	$Y \rightarrow$	$Y \rightarrow$	$Y \rightarrow$	
		N	N	N	
	IF YES, PLEASE SPECIFY:				
t	Nephritis?	$Y \rightarrow$	$Y \rightarrow$	$Y \rightarrow$	
	•	N	N	N	
u	Kidney stones?	$Y \rightarrow$	$Y \rightarrow$	$Y \rightarrow$	
	•	N	N	N	
\mathbf{v}	Any other kidney trouble?	$Y \rightarrow$	$Y \rightarrow$	$Y \rightarrow$	
		N	N	N	
	IF YES, PLEASE SPECIFY:				
W	Any disease requiring chemotherapy?	$Y \rightarrow$	How long ago did	(you/he/she) last h	ave chemotherapy?
		N			17
	IF YES, PLEASE SPECIFY:				

BASIC HOUSING CHARACTERISTICS

These next questions are about your (house/apartment).	Please feel free to ask another member of your household
for assistance if necessary.	

ior as:	sistance if necessa	ry.		
B22.	Is this property a	ctively used as a farm or ranch? (CIRCLE "Y" OF	R "N.")	
		YES	Y	
		NO		
D22	A1 / 1	41. 1. Th	CID CL E	ONE)
B23.	About when was	this building first built? (READ CHOICES AND	CIRCLE	ONE.)
		1990 TO PRESENT	1	
		1985 TO 1989		
		1980 TO 1984		
		1970 TO 1979		
		1960 TO 1969		
		1950 TO 1959		
		1940 TO 1949		
		1939 OR EARLIER		
		DON'T KNOW		
B24.	When did (you/h	e/she) move into this (house/apartment)? (READ 0	CHOICES	S AND CIRCLEONE.)
		1990 TO PRESENT	1	
		1985 TO 1989		
		1980 TO 1984		
		1970 TO 1979		
		1960 TO 1969		
		1950 TO 1959		
		1940 TO 1949		
		1939 OR EARLIER		
		DON'T KNOW		
B25.	In the last six mo	nths, have any of the following been performed in	this home	e? (CIRCLE "Y" OR "N.")
			YES	<u>NO</u>
		Adding a room	V	N N
		Putting up or taking down a wall	I V	N
		Replacing windows		N
		Refinishing floors		N
		Exterior painting		N
		Interior painting		N
B26a.	Does this (house/	apartment) have running water? (CIRCLE "Y" O	R "N.")	
		YES	V	CONTINUE
		NO		
		110	1 v →	OO 10 D200

B26b.	What is the source THAT APPLY.)	ce of the running water in your house/apartn	nent? (READ (CHOIC	ES ANDCI	RCLE ALL
		Public or commercial water systemNAME		1			
		Private well		2			
		Cistern					
		Some other source					
		DON'T KNOW		DK			
B26c.	Which water sou CIRCLE ONE.)	rce is used <i>most often (more than half the t</i>	<i>time)</i> fo	or cookii	ng? (RI	EADCHOIC	CES AND
		Tap water		1			
		Bottled water					
		Some other source					
		DON'T KNOW		DK			
B26d.	Which water sou CIRCLE ONE.)	rce is used <i>most often (more than half the t</i>	<i>time)</i> fo	or drinki	ng? (R	EADCHOIC	CES AND
		Tap water		1			
		Bottled water					
		Some other source					
		DON'T KNOW					
B26e.		of the following to treat your water at home ENT TYPE OR "DK" FOR DON'T KNOW					
						DON'T	
				<u>YES</u>	<u>NO</u>	KNOW	
	i.	Water Softener		Y	N	DK	
	ii.	Charcoal Filter		Y	N	DK	
	iii.	Reverse Osmosis		Y	N	DK	
	iv.	Distillation		Y	N	DK	
	v.	Other (Specify:	_)	Y	N	DK	
B27a.	Is there an enclose	sed garage attached to this (house/apartment	t)? (CIR	CLE "Y	7" OR '	"N.")	
		YES		Y –	→ COi	NTINUE	
		NO		N –	→ GO	TO B28	
B27b.	Where is the atta	ched garage? (READ CHOICES AND CIR	CLE O	NE.)			
		Underneath the main living quarters		1			
		Same level as the main living quarters					
		Somewhere else; Specify:					
		DON'T KNOW	·	DK			
		- / /					

B27c.	Is there a doorway leading directly from the garage into the living quarters? (CIRCLE "Y" OR"N.")
	YESY
	NON
B27d.	Are automobiles, vans, trucks or other motor vehicles parked in this attached garage? (CIRCLE"Y" OR "N".)
	YESY
	NON
B28.	Are any gas powered devices stored in any room, basement, or attached garage in this (house/apartment)? (CIRCLE ONE. DO NOT INCLUDE CARS, VANS, OR TRUCKS. DO INCLUDE MOTORCYCLES, GAS-POWERED LAWN MOWERS, TRIMMERS OR BLOWERS, BOAT ENGINES, ETC.)
	YESY
	NON
	DON'T KNOWDK
B29a.	Is air conditioning (refrigeration) used to cool this (house/apartment)? (CIRCLE "Y" OR "N.")
	YESY \rightarrow CONTINUE
	NON \rightarrow GO TO B30
B29b.	Which types of air conditioning units do you use? (READ CHOICES AND CIRCLE ALLTHAT APPLY.)
	Central unit/units
	Window or wall unit/units2
	Portable unit/units
B29c.	During which month (do you <i>usually</i> /would you) start using air conditioning to cool this (house/apartment)? During which month (do you <i>usually</i> /would you) stop using air conditioning? (CIRCLE THE START AND STOP MONTHS.)
	Start Month: Jan Feb Mar Apr May Jun Jul Aug Sept Oct Nov Dec
	Stop Month: Jan Feb Mar Apr May Jun Jul Aug Sept Oct Nov Dec
	and and any and any and any and any and any and any

B30.	QUESTION B30 SI	HOULD BE ASKED IN ARIZONA ONLY. OTHE	ERS GO	ГО В31.
B30a.	. Is an evaporative (s	wamp) cooler used to cool this (house/apartment)?	(CIRCLE	E "Y" OR "N")
		ES		
B30b.	. Which types of evap APPLY.)	porative (swamp) coolers are used ? (READ CHOI	CES ANI	O CIRCLE ALL THAT
		entral unit/units		
		Tindow or wall unit/units 2 ortable unit/units 3		
В30с.	. How often are the p	ads changed on the coolers?		
		times/year.		
	Are they			
	<u> </u>	nanged during the summer		
	C: 2	hanged once at the beginning of the summer2 Changed after years of use3		
B30d.	. What types of pads	are currently used in the coolers (READ CHOICES	S AND C	IRCLE ALLTHAT APPLY)
	A	spen pads1		
		iper pads		
	C ₇	In the pads	'	
		ther:4		
B30e.	. How often is the wa	ter drained and the cooler cleaned?tin	nes/year.	
B30f.	How often is water	treatment added to the water? times/year		
B31.	Which fuels are use APPLY.)	d for heating this (house/apartment)? (READ CHO	ICES AN	ID CIRCLE ALLTHAT
	G	as: from underground pipes serving		
		the neighborhood		
		as: bottled, tank, or LP2		
		ectricity3		
		iel oil, kerosene, etc4		
		oal or coke5		
		ood6		
	So	olar energy7	•	
		ther fuel (Specify:)8		
		o fuel used9		
		ON'T KNOW4		

B32.	Does this (house (CIRCLE "Y" C			ave a	centra	ıl hea	ting s	system	with	ducts	that bl	ow ai	r into 1	nost roc	oms?
		YES								,	Y				
B33.	During which musually/would y														
	Start Month: Ja	n Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec			
	Stop Month: Ja	n Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec			
B34a.	During the mont (house/apartmer						n, do	you u	se por	table	kerose	ne he	aters in	n this	
		YES.									Y -	· CC	NTIN	UE	
		NO			•••••]	N -	GC	ТОЕ	336a	
B34b.	. How many kero	sene he	aters c	lid yo	u use <i>l</i>	ast ye	ear? _								
B34c.	How often do yo ONE.)	ou use y	our ke	erosen	ne heat	er <i>du</i>	ring i	the he	ating s	seasoi	1 ? (RE	AD (CHOIC	CESANI) CIRCLE
		One to	o three or two	days	y a mo s per m a week	onth.				,	2				
D2.5		More	than 5	days	a wee	k					5		,		o (GID GI E
В35а.	During the heat "Y" OR "N.")	ting sea	son , 15	s a po	rtable	or noi	nvent	ed gas	heate	r usec	l in thi	s (hou	ise/apa	ırtment)	? (CIRCLE
B35b.	. How many gas l	neaters?			_										
В35с.	How often is a p	ortable	or noi	nvente	ed gas	heate	r use	d? (R	EAD (CHOI	CES A	ND (CIRCL	E ONE	.)
		One to One of 3-5 da	o three or two ays a v	days days veek.	y a mo s per m a week	onth.					2 3 4				

	e heating season, is a wood-burning or coal-bu "Y" OR "N.")	irning stove used in this (house/apartment)?
	YES	V CONTINUE
	NO	
B36b. How many	y wood or coal-burning stoves?	
	is a wood-burning or coal-burning stove used CLE ONE.)	during the heating season? (READ CHOICES
	Less than one day a month	
	One to three days per month	
	One or two days a week	
	3-5 days a week	
	More than 5 days a week	5
B36d. What is bu	urned in the stove? (READ CHOICES AND CI	RCLE ALL THAT APPLY.)
	Wood	1
	Coal	
	Other (Specify:	
B37a. <i>During th</i>	e heating season, is a fireplace used in this (ho	use/apartment)? (CIRCLE "Y" OR "N.")
	YES	V → CONTINUE
	NO	
B37b How man	y fireplaces?	
	· ·	
B37c. How often	n is a fireplace used during the heating season	? (READ CHOICES AND CIRCLE ONE.)
	Less than one day a month	
	One to three days per month	
	One or two days a week	
	3-5 days a week	
	More than 5 days a week	5
B37d. What is bu	urned in the fireplace? (READ CHOICES AND	CIRCLE ALL THAT APPLY.)
	Wood	1
	Artificial logs	
	Gas fire	
	Other (Specify:)4
	at 6 months, were any chemicals for the control (house/apartment)? (CIRCLE ONE.)	of termites, insects, rodents, or other pests used
	YES	Y → CONTINUE
	NO	
	DON'T KNOW	

ro	dents, or other pests? (READ CHOICES AND CIRCLE ALL THAT APPLY)
	Living room1
	Family room
	Dining room
	Kitchen4
	Bathroom(s)5
	Bedroom(s)6
	Other rooms7
	DON'T KNOW8
B38c. V	What areas within the room(s) were treated? (READ CHOICES AND CIRCLE ALL THAT APPLY)
	Floors1
	Baseboards
	Lower half of the walls3
	Upper half of the walls4
	Ceilings5
	Cupboards with dishes, pots, and pans6
	Cupboards with food7
	Cabinets used for storage8
	Closets9
	Other (Specify:)10 DON'T KNOWDK
	DON'T KNOWDK
B38d. In	the <i>past 6 months</i> , how many times (ENTER NUMBER OR "DK" FOR DON'T KNOW.) i. did (you/he/she) personally apply these products inside this (house/apartment)? ii. did a professional exterminator apply these products inside this house or apartment? iii. did someone else apply these products inside this (house/apartment)?
	what month were they <u>last</u> used inside this (house/apartment)? (ENTER MONTH OR "DK" FOR ON'T KNOW.)
	hat is (are) the name(s) of the product(s) last used inside this (house/apartment)? (IF RESPONDENT OES NOT KNOW, ASK TO SEE THE CONTAINERS. ENTER NAME OR "DK" FOR DON'T KNOW)
	ne last time this product was used inside this (house/apartment) how was it prepared for application? EAD CHOICES AND CIRCLE ONE.)
	Mixed or diluted
	Applied directly as purchased (no mixing)
	DON'T KNOWDK → GO TO B39a
	DOI\ 1 KI\0\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	ne last time this product was used inside this (house/apartment), who mixed the product? (READ CHOICES ND CIRCLE ONE.)
	Pagnandant 1
	Respondent
	Other3
	DON'T KNOWDK

B38b. In the past 6 months, what rooms in your home were treated with products for the control of termites, insects,

B38i.	Where was it mixed? (ENTER LOCATION OR "DK" FOR DON'T KNOW.)
B39a.	In the <i>past 6 months</i> , were any chemicals for the control of termites, insects, rodents, or other pests used outside this (house/apartment)? (CIRCLE ONE.)
	YES
B39b.	In the <i>past 6 months</i> , how many times (ENTER NUMBER OR "DK" FOR DON'T KNOW.)
	 i. did (you/he/she) personally apply these products outside this (house/apartment)? ii. did a professional exterminator apply these products outside this house or apartment? iii. did someone else apply these products outside this (house/apartment)?
В39с.	In what month were they <u>last</u> used outside this (house/apartment)? (ENTER MONTH OR "DK" FOR DON'T KNOW.)
B39d.	What is (are) the name(s) of the product(s) last used outside this (house/apartment)? (IF RESPONDENT DOES NOT KNOW, ASK TO SEE THE CONTAINERS. ENTER NAME OR "DK" FOR DON'T KNOW.
B39e.	The last time this product was used outside this (house/apartment) how was it prepared for application? (READ CHOICES AND CIRCLE ONE.)
	Mixed or diluted
B38h.	The last time this product was used outside this (house/apartment), who mixed the product? (READ CHOICES AND CIRCLE ONE.)
	Respondent
B38i.	Where was it mixed? (ENTER LOCATION OR "DK" FOR DON'T KNOW.)
B39a.	In the <i>past 6 months</i> , have you had any regular lawn or yard treatments? (CIRCLE ONE.)
	YES

B40b.	40b. Who usually applies these treatments? (READ CHOICES AND CIRCLE ONE.)	
	Respondent 1 Professional 2 Someone else 3	
B40c.	40c. Were the treatments applied wet or dry?	
	W	
	Wet	
	DON'T KNOWDK	
B40d.	Hod. In the <i>past 6 months</i> , how many of these lawn treatments contained weed control? (ENTER "DK" FOR DON'T KNOW.)	R NUMBER OR
B40e.	Hoe. In the <i>past 6 months</i> , how many of these lawn treatments contained insect control? (ENTE "DK" FOR DON'T KNOW.)	R NUMBER OF
B40f.	40f. In what month was the last treatment applied? (ENTER MONTH OR "DK" FOR DON'T K	NOW.)
B41.	1. During the <i>past six months</i> have mothballs been used in this (house/apartment)? (CIRCLE	"Y" OR "N.")
	YESY	
	NON	
B42.	During the <i>past six months</i> have room deodorizers been used in this (house/apartment)? (CIRCLE "Y" OR "N.")	
	YESY	
	NON	
B43a.	3a. Do you have house pets such as dogs, cats, gerbils, hamsters, rabbits, guinea pigs, birds? (CIRCLE "Y" OR "N.")	
	YESY → CONTINUE	
	NON \rightarrow GO TO B44	
B43b.	3b. How many of these pets are kept indoors all the time?	
В43с.	13c. How many of these pets are kept outdoors all the time?	
B43d.	13d. How many of these pets are kept both indoors AND outdoors?	
B43e.	3e. Are any chemicals used on the pets to control fleas and ticks? (CIRCLE "Y" OR "N.")	
	YESY → CONTINUE	
	NON \rightarrow GO TO B44	

B43f. What is the name of the products last used on one of your pets to control fleas or ticks? (IF RESPONDENT DOES NOT KNOW, ASK TO SEE THE CONTAINER(S). ENTER NAME OR "DK" FOR DON'T KNOW)

FAMILY INCOME

B44. Family income is often used in scientific studies to compare groups of people who are similar. We do some analysis of the data using these groups. Please remember that all the data you provide is held in strict confidence.

Approximately what is the gross annual income for all family members in this household? (HAND CARD, PENCIL, AND ENVELOPE TO RESPONDENT.) Please circle the number on this card and put the card in the envelope. Seal the envelope and return it to me. (IF RESPONDENT PROVIDES ANSWER DIRECTLY, CIRCLE NUMBER BELOW. IF RESPONDENT SEALS RESPONSE IN ENVELOPE, CIRCLE "EN." IF RESPONDENT DOES BOTH, CIRCLE BOTH NUMBER AND "EN.")

Less than \$9,999	1
\$ 10,000 - \$ 19,999	
\$ 20,000 - \$ 29,999	
\$ 30,000 - \$ 39,999	
\$ 40,000 - \$ 49,999	
\$ 50,000 - \$ 74,999	
\$ 75,000 - \$ 99,999	7
\$100,000 or more	
ANSWER IN ENVELOPE	
DON'T KNOW	DK
REFUSE	RE

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OMB Clearance #:2080-0053 Expires: July 31, 1998

NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY

TIME DIARY AND ACTIVITY QUESTIONNAIRE

Participant Identification Number

[Place Label Here]

Public reporting burden for this collection of information is estimated to averagehourseponse, and to requirehours recordkeeping. This includes the time for reviewing in searching existing data sources, gathering and maintaining the data needed, and completing	nstructions,
the collection of information. Send comments regarding this burden estimate or any othe collection of information, including suggestions for reducing the burden, to Chief, Inform	r aspect of this
2136, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460; Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C.	
INTERVIEWER/TECHNICIAN ID:	
Date Completed:/	July 14, 1995

[THIS PAGE WILL CONTAIN THE INFORMATION NECESSARY TO IDENTIFY THE PARTICIPANT AND WILL BE DESIGNED BY EACH CONSORTIUM TO MEET ITS NEEDS. THIS IS AN EXAMPLE OF THE INFORMATION THAT WILL BE RECORDED.]

NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY

TIME DIARY AND ACTIVITY QUESTIONNAIRE

DESIGNATED PARTICIPANT	
(If the participant is less than 10 years old, what is the name of the individual who is providing the answers for the designated respondent?)	
Name of Participant	
Completed by (if other than participant)	
Relation to participant	
Home Phone Date:/	
LOCATION DATA (Technician Completedaddress/ID label)	-
State County	
Census Tract Block	
Street Address/_Apt./Space #	
City, Zip/	
GPS Reading: Latitude	
Longitude	
INTERVIEWER/TECHNICIAN ID: Date Completed:/	_

NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY

TIME DIARY AND ACTIVITY QUESTIONNAIRE

At the end of each day, take a few minutes to record the time (you/your child) spent in each of the seven listed locations. There is one box for each day of the study. The numbers in the box stand for hours of the day. For example, 5 in the morning is 5:00 a.m. to 5:59 a.m. For each hour of the day, place an X through the number for each location where (you/your child) spent any time during the hour. Make sure there is at least one X for each hour of the day.

The terms used in the time diary are defined as follows:

• Home: The house or apartment where (you live/your child lives); the location where we are collecting samples.

• Work: A place away from home where (you work/your child works).

• School: A place away from home where (you attend/your child attends) school.

• Transit: Any travel from one location to another, including all travel between such places as home, school, and shopping centers, as well as all other travel on roads, paths, or trails.

• Other: All other places (you spend/your child spends) time besides home, work, school, and in transit between locations.

Day 1 Day of Week	Location	Morning	Afternoon	Evening	Early Morning (Night time)
					` ` `
DATE//	In Transit	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4

PLEASE ALSO COMPLETE THE COLUMN FOR DAY 1 STARTING ON PAGE 6.

Day 2					
Day of					Early Morning
Week	Location	Morning	Afternoon	Evening	(Night time)
DATE//	In Transit	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4

PLEASE ALSO COMPLETE THE COLUMN FOR DAY 1 STARTING ON PAGE 6.

Day 3 Day of Week	Location	Morning	Afternoon	Evening	Early Morning (Night time)
DATE _ /_ /_	In Transit	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4

PLEASE ALSO COMPLETE THE COLUMN FOR DAY 1 STARTING ON PAGE 6.

Day 4 Day of Week	Location	Morning	Afternoon	Evening	Early Morning (Night time)
					` ` '
DATE//_	In Transit	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4

PLEASE ALSO COMPLETE THE COLUMN FOR DAY 1 STARTING ON PAGE 6.

Day 5					
Day of					Early Morning
Week	Location	Morning	Afternoon	Evening	(Night time)
DATE//	In Transit	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4

PLEASE ALSO COMPLETE THE COLUMN FOR DAY 1 STARTING ON PAGE 6.

Day 6 Day of Week	Location	Morning	Afternoon	Evening	Early Morning (Night time)
DATE//	In Transit	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4

PLEASE ALSO COMPLETE THE COLUMN FOR DAY 1 STARTING ON PAGE 6.

Day 7					
Day of					Early Morning
Week	Location	Morning	Afternoon	Evening	(Night time)
DATE//	In Transit	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Home	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Work and School	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Outside at Other	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4

PLEASE ALSO COMPLETE THE COLUMN FOR DAY 1 STARTING ON PAGE 6.

Day 8 Day of Week	Location	Morning	Afternoon	Evening	Early Morning (Night time)
DATE / /	In Transit	5 6 7 8 9 10 11	12 1 2 3 4 5	6 7 8 9 10 1	12 1 2 3 4
	Inside at Home Inside at Work and School Inside at Other	5 6 7 8 9 10 11 5 6 7 8 9 10 11 5 6 7 8 9 10 11 5 6 7 8 9 10 11	12 1 2 3 4 5 12 1 2 3 4 5 12 1 2 3 4 5 12 1 2 3 4 5	6 7 8 9 10 1 6 7 8 9 10 1 6 7 8 9 10 1	12 1 2 3 4 12 1 2 3 4 12 1 2 3 4 12 1 2 3 4
	Outside at Home Outside at Work and School Outside at Other	5 6 7 8 9 10 11 5 6 7 8 9 10 11 5 6 7 8 9 10 11	12 1 2 3 4 5 12 1 2 3 4 5 12 1 2 3 4 5	6 7 8 9 10 1 6 7 8 9 10 1 6 7 8 9 10 1	12 1 2 3 4 12 1 2 3 4 12 1 2 3 4

PLEASE ALSO COMPLETE THE COLUMN FOR DAY 1 STARTING ON PAGE 6.

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	1	2	3	4	5	6	7	8
	Day	Day	Day	Day	Day	Day	Day	Day
	Date	Date	Date	Date	Date	Date	Date	Date
	/ /	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Questions A1-A13: Please	circle "Y" for	Yes or "N" for N	0.					
A1. Did (you/your child) pump gas today?	Y N	Y N	Y N	Y N	ΥN	ΥN	ΥN	ΥN
A2. Did (you/your child) spill gasoline on (your/his/her) skin today?	ΥN	ΥN	ΥN	ΥN	ΥN	ΥN	ΥN	ΥN
A3. Did (you/your child) spend at least 15 minutes in an enclosed garage with a parked car today?	ΥN	ΥN	ΥN	ΥN	ΥN	ΥN	ΥN	Y N
A4. Did (you/your child) have soil or dirt from your yard in contact with the skin today?	ΥN	ΥN	ΥN	ΥN	Y N	ΥN	ΥN	ΥN
A5. Did (you/your child) have grass or leaves from your yard in contact with the skin today?	ΥN	ΥN	ΥN	ΥN	ΥN	ΥN	ΥN	Y N
A6. Did (you/your child) clean a fireplace or wood stove today?	ΥN	ΥN	ΥN	ΥN	Y N	ΥN	ΥN	ΥN

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	1	2	3	4	5	6	7	8
	Day	Day	Day	Day	Day	Day	Day	Day
	Date	Date	Date	Date	Date	Date	Date	Date
	/ /	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Questions A1-A13 (continu	ed): Please circle	e "Y" for Yes or	r "N" for No.					-
A7. Did (you/your child) start or tend to a fire in a fireplace or wood stove today?	YN	ΥN	Y N	Y N	YN	Y N	Y N	Y N
A8. Did (you/your child) use and outdoor grill or burn wood, leaves or trash today?	Y N	ΥN	Y N	Y N	Y N	Y N	Y N	YN
A9. Were any tobacco products smoked in the home today?	Y N	ΥN	Y N	Y N	Y N	Y N	Y N	Y N
A10. Did (you/your child) take a shower today?	Y N	Y N	ΥN	Y N	Y N	Y N	ΥN	Y N
A11. Did (you/your child) take a bath today?	Y N	Y N	ΥN	Y N	Y N	Y N	ΥN	ΥN
A12. Did (you/your child) prepare (pour, mix) pesticides, insecticides, or herbicides for use today?	Y N	ΥN	Y N	Y N	Y N	Y N	Y N	ΥN
A13. Did (you/your child) apply pesticides, insecticides, or herbicides today?	Y N	ΥN	Y N	Y N	Y N	Y N	Y N	Y N

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	1	2	3	4	5	6	7	8
	Day							
	Date							
	/ /	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Questions A14-A18: Please	enter the numb	er.						
A14. How many glasses or cups of water did (you/your child) drink today?	# drinks							
A15. How many cigarettes did (you/your child) smoke today?	# cigarettes							
A16. How many cigars or pipesful did (you/your child) smoke today?	# cigars/- pipesful							
A17. How many times did (you/your child) use smokeless tobacco today?	# times							
A18. How many times did (you/your child) wash (your/his/her) hands today?	# times							

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	1	2	3	4	5	6	7	8
	Day	Day	Day	Day	Day	Day	Day	Day
	Date	Date	Date	Date	Date	Date	Date	Date
	/ /	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Questions A19-A28: Please					30 min, 45 min	, or 1 hr, which	ever is closet to	time actually
spent. If time was greater t	than 1 hour, rou	nd to the nearest	t hour. Circle eit	ther min, or hr.	T			T
A19. (You/your child) traveled on roadways or highways today?	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr
A20. (You/your child) spent indoors with someone who was smoking?	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr
A21. (You/your child) spent in a vehicle with someone who was smoking?	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr
A22. (You/your child) spent swimming in indoor or outdoor pools today?	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr
A23. (You/your child) spent using cleaning supplies (cleaners, waxes, polishes) today?	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr
A24. (You/your child) spent laying down or sitting on the carpet or rugs at home today?	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr	min or hr

	1	2	3	4	5	6	7	8
	Day							
	Date							
	/ /	/ /	/ /	/ /	/ /	/ /	/ /	/ /
Questions A19-A28: Please					30 min, 45 min	, or 1 hr, which	ever is closet to	time actually
spent. If time was greater t	than 1 hour, rou	nd to the neares	t hour. Circle ei	ther min, or hr.	T	Г	Т	T
A25. (You/your child) spent in an enclosed workshop or garage used as a workshop today?	min or hr							
A26. Doors and windows at your house were left open for ventilation today?	min or hr							
A27. (You/your child) spent performing vigorous exercise like digging or other heavy manual labor, running, bicycling, aerobic dancing, playing basketball or soccer today?	min or hr							
A28. (You/your child) spent performing moderate exercise like walking, gardening, working while on your feet, or playing softball or golf today?	min or hr							
For Technician Use Only	Comp. [] Asst. [] Do []							

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OMB Clearance #:2080-0053 Expires: July 31, 1998

NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY

TECHNICAL WALK-THROUGH QUESTIONNAIRE

Participant Identification Number

[Place Label Here]

Public reporting burden for this collection of information is estimated to average hours (or minutes) per response, and to require hours recordkeeping. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Chief, Information Policy Branch
2136, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460; and to the Office of
Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.
INTERVIEWER/TECHNICIAN ID:
Date Completed:/ July 14, 1995

[THIS PAGE WILL CONTAIN THE INFORMATION NECESSARY TO IDENTIFY THE PARTICIPANT AND WILL BE DESIGNED BY EACH CONSORTIUM TO MEET ITS NEEDS. THIS IS AN EXAMPLE OF THE INFORMATION THAT WILL BE RECORDED.]

NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY

TECHNICIAN WALK-THROUGH QUESTIONNAIRE

nte	County	
ensus Tract	Block	
treet Address _		/
City, Zip		Zip code
SPS Reading:	Latitude	
	Longitude	

NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY TECHNICIAN WALK-THROUGH QUESTIONNAIRE

COMPLETE THIS QUESTIONNAIRE BY OBSERVATION. YOU MAY ASK PARTICIPANT ANY QUESTIONS THAT ARE NOT APPARENT.

T1.	How many stories (floors) are in this building? (COUNT ONLY FLOORS WITH FINISHEDROOMS FOR LIVING PURPOSES OR FINISHED BASEMENTS.)
	Floors
	IF MULTI-FAMILY BUILDING, CONTINUE. ELSE, GO TO QUESTION T3.
T2.	Which floor(s) do respondents live on? floor(s).
T3.	Of these rooms, how many are carpeted or have rugs covering most (>50%) of their surface? Rooms
T4.	Using the following statements, how would you rate the overall dust level within the residence? (CIRCLE ONE.)
	Very Dusty
	Additional Comments on dust control:
T5.	Indicate nearest major intersection:

EXTERIOR AND INTERIOR RESIDENTIAL CHARACTERISTICS

T6a.	Surrounding area (within a quarter mile radius of this property): (CIRCLE ALL THAT APPLY.)
	Residential 1 Recreational 2 Commercial 3 Industrial 4 Agricultural 5 Other (Specify:) 6
T6b.	Distance to street (MEASURE THE DISTANCE FROM THE CURB TO THE PRIMARY ENTRANCE TO THE RESIDENCE OR CHECK BOX IF DISTANCE IS ESTIMATED TO BE GREATER THAN 300 FEET.):
	feet
	>300 feet
T6c.	Exterior siding material (including foundation): (CIRCLE ALL THAT APPLY.)
	Wood 1 Brick 2 Vinyl/aluminum 3 Concrete block 4 Stucco 5 Asbestos/asphalt 6 Other (Specify:) 7
T6d.	Is there paint on any exterior surface that is chalking, chipping or peeling?
	Yes 1 No 2 Not Painted 3
T6e	Is there paint on any interior surface that is chalking, chipping or peeling?
	Yes 1 No 2 Not Painted 3
T6f.	Material around primary entrance to structure: (CIRCLE ALL THAT APPLY.)
	Soil 1 Grass 2 Cement/asphalt/brick 3 Gravel 4 Wood 5 Other (Specify:) .6

T6g.	Dripline: (CIRCLE ONE.)			
	At wall1			
	Gutters no dripline			
	feet from wall			
	Other (Specify:)4			
т/1.				
I on.	Roof type and composition: (CIRCLE ALL THAT APPLY.)			
	Tarred roof - petroleum base1			
	Sealed with roof protector			
	Wood shakes/shingles3			
	Composition asphalt shingles4			
	Other (Specify:)5			
T6i.	Yard material: (CIRCLE ALL THAT APPLY.)			
	Soil1			
	Grass			
	Porch/balcony			
	Cement 4			
	Wood/deck 5			
	Other (Specify:)6			
	Not applicable7			
T6j.	Types of foundation: (CIRCLE ALL THAT APPLY.)			
	Soil1			
	Crawl space2			
	Combination crawl space/basement			
	Full basement4			
	Other (Specify:)5			
	Don't Know6			
Т7а.	Does this residence have a swimming pool?			
			CONTRIBUTION	
	YESY			
	NON	\rightarrow	GO TO T8	a
T7b.	Where is the swimming pool located?			
	Inside1			
	Outside2			
T8a.	Does this house or apartment have a hot tub or jacuzzi?			
	YESY	\rightarrow	CONTINU	E
	NON	\rightarrow	STOP	
T8b.	Where is the hot tub or jacuzzi located?			
	Inside1			
	Outside2			

T9. Subject Tracking (Arizona Only)

It is vital that the subject number is assigned correctly. Respondent numbers were assigned during the initial contact. Prior to entering the field, record the preassigned respondent numbers and the first name of the subject. Verify the previous information and record additional information. Record the names and status of any previously absent or unreported household members. Assign additional household members a respondent number.

Pre-Assigned Respondent #	Legal First Name	Date of Birth	Relationship to Respondent 01	Bedroom # (from diagram)	Respondent # During this Visit Series	Changes in Respondent Status

The Primary Respondent is Number	
----------------------------------	--

T10. Household Diagram			
1. Overall dimensions of the portion of th	e house or apartment occupio	ed by the residents:	
Average length:ft Widt	h:ft	Ceiling height:	ft.
2. Diagram the house with appropriate direction family room (FR), the kitchen (KA), are (usually the living or family rooms) As B02=the next largest, etc.). Bedrooms	d other rooms (OR). In addi a convention, label the bedr	tion, label the main room (MR)oc ooms in order of size. (B01=the la	cupied
Indicated room(s) where Indoor Samples are p	placed:		
PM	Active VOC		
Carpet dustSurface dust	Passive HCHO		
PID	Personal Air (Respo	ndent E)	•
Other:			

T11. Characteristics of floor surfaces and cleaning utensils

	Floor Surface			Cleaning Metho		
ROOM/FLOOR #	Carpeted 1 Looped 2 Shag 3 Cut/Pile 4 Looped Cut 5 Other	Hard Surface 1 Concrete 2 Brick 3 Wood 4 Tile 5 Other	Other (Specify)	Scotch Guard Applied	Last Date and Method of Carpet Cleaning (i.e., Professional or Do-it- yourself, Water, Steam, or Chemicals)	Does Anyone Frequently Occupy the Floor of this Room (Crawling, Sleeping, Playing, Sitting) GIVE NAME
	1 2 3 4 5	1 2 3 4 5	(YN		
	1 2 3 4 5	1 2 3 4 5		Y N		
	1 2 3 4 5	1 2 3 4 5		Y N		
	1 2 3 4 5	1 2 3 4 5		Y N		
	1 2 3 4 5	1 2 3 4 5		Y N		
	1 2 3 4 5	1 2 3 4 5		Y N		
	1 2 3 4 5	1 2 3 4 5		Y N		
	1 2 3 4 5	1 2 3 4 5		Y N		
	1 2 3 4 5	1 2 3 4 5		Y N		
	1 2 3 4 5	1 2 3 4 5		Y N		

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OMB Clearance #:2080-0053 Expires: July 31, 1998

NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY

FOLLOWUP QUESTIONNAIRE

Participant Identification Number

[Place Label Here]

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INTERVIEWER/TECHNICIAN ID:	
Date Completed:/ July 14, 1995	5

[THIS PAGE WILL CONTAIN THE INFORMATION NECESSARY TO IDENTIFY THE PARTICIPANT AND WILL BE DESIGNED BY EACH CONSORTIUM TO MEET ITS NEEDS. THIS IS AN EXAMPLE OF THE INFORMATION THAT WILL BE RECORDED.]

NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY

FOLLOWUP QUESTIONNAIRE

DESIGNATED PARTICIPANT
(If the participant is less than 10 years old, what is the name of the individual who is providing the answers for the designated respondent?)
Name of Participant
Completed by (if other than participant)
Relation to participant
Home Phone Date:/
LOCATION DATA (Technician Completedaddress/ID label) State County Census Tract Block
Street Address/_Apt./Space #
City, Zip/
INTERVIEWER/TECHNICIAN ID: Date Completed://

These first questions are about things which may have happened in your home. They can be things (you do or see/he/she does or sees) or just normal activities. Please think about only the past week, the time when you were taking part in this study.

F1. In the past week, were any of the following items used in your home?	(READ CHOICES AND CIRCLE "N" FOR NO AND "Y" FOR YES.)
--	---

a. central air conditioner?	No	<u>Yes</u>	
b. a window or wall air conditioning unit(s)?	N	Y	
	N	Y>	Was it set to (READ CHOICES AND CIRCLE ONE.)
			recirculate 1 outdoor air 2 DON'T KNOW DK
c. an evaporative cooler?	N	Y	
d. a portable or ceiling fan?			
e. a window fan?			
f. an exhaust fan?			

			<u>No</u>	<u>Yes</u>		CIRCLE CORRECT N <u>UMBER</u>
	g.	a wood-or coal-burning stove or furnace?	N	Y	>	1 2 3 4 5 6 7
	h.	an oil-burning furnace?	N	Y	>	1 2 3 4 5 6 7
	i.	a kerosene space heater?	N	Y	>	1 2 3 4 5 6 7
	j.	a gas-fired space heater?	N	Y	>	1 2 3 4 5 6 7
	k.	a fireplace?	N	Y	>	1 2 3 4 5 6 7
_	1.	forced-air central heat? (not oil, wood,or coal burning)	N	Y	>	1 2 3 4 5 6 7
E-63	m.	electrostatic precipitator?	N	Y	>	1 2 3 4 5 6 7
		ultrasonic humidifier?	N	Y	>	1 2 3 4 5 6 7
	o.	Other filtering device?	N	Y	>	1 2 3 4 5 6 7

When (you/he/she) used (READ CHOICES), on how many days, if any, did you see or smell unusually heavy smoke or other fumes coming

--> --> --> F2. In the past week, did (you/he/she) spend any time....? or (were you/was he/she) near anyone who was....? (READ THE QUESTION FOR EACH ACTIVITY. IF RESPONDENT ANSWERS YES FOR ANY ACTIVITY, CIRCLE "Y" AND ASK DETAILED SUB-QUESTIONS. CIRCLE "N" FOR NO. IF THE TIME USING OR BEING NEAR THE USE OF A PRODUCT IS LESS THAN 1 HOUR, ENTER 15 MIN, 30 MIN, 45 MIN, OR 1 HR, WHICHEVER IS CLOSEST TO TIME REPORTED. IF TIME IS GREATER THAN 1 HOUR, ROUND TO THE NEAREST HOUR. CIRCLE EITHER MIN. OR HR.)

	_	No	Yes	How long (were you/was he/ she) How many Number of using or near use handle them times in the days since of CIRCLE min (yourself/ himself/ wash hands after the past week? How long (were you/was he/ she) Uid (you/he/ she) handle them (yourself/ himself/ wash hands after the past week? OR hr herself)? Uid (you/he/ she) handle them (yourself/ himself/ wash hands after the past week?				handle them (yourself/ himself/		vou/was he/ she) using or near use of CIRCLE min Did (you/he/ she) handle them (yourself/ himself/		ds after			
a.	paints or solvents (thinners and removers)?	N	Y>	times	days	min/hr	N	Y ->	N	Y	N	Y			
b.	glues or adhesives, such as contact cements, super glues, and aerosol adhesives, that contain chemical solvents?	N	Y>	times	days	min/hr	N	Y ->	N	Y	N	Y			
c.	petroleum products (kerosene, fuel oil) (not pumping gas)?	N	Y>	times	days	min/hr	N	Y ->	N	Y	N	Y			
d.	gas-powered lawn mower?	N	Y>	times	days	min/hr	N	Y ->	N	Y	N	Y			
e.	chain saw or other gas-powered equipment	N	Y>	times	days	min/hr	N	Y ->	N	Y	N	Y			
f.	sander?	N	Y>	times	days	min/hr	N	Y ->	N	Y	N	Y			
g.	insecticides, pesticides, herbicides in any way, including farming or gardening?	N	Y>	times	days	min/hr	N	Y ->	N	Y	N	Y			

g1. Did (you/he/she) mix the product (yourself/himself/herself)? (CIRCLE "Y" OR "N.")

Yes Y No N F3. In the *past week*, did (you/he/she) spend any time....? or (were you/was he/she) near anyone who was....? (READ THE QUESTION FOR EACH ACTIVITY. IF RESPONDENT ANSWERS YES FOR ANY ACTIVITY, CIRCLE "Y" AND ASK DETAILED SUB-QUESTIONS. CIRCLE "N" FOR NO. IF THE TIME SPENT IN AN ACTIVITY OR BEING NEAR SOMEONE ENGAGED IN AN ACTIVITY IS LESS THAN 1 HOUR, ENTER 15 MIN, 30 MIN, 45 MIN, OR 1 HR, WHICHEVER IS CLOSEST TO TIME REPORTED. IF TIME IS GREATER THAN 1 HOUR, ROUND TO THE NEAREST HOUR. CIRCLE EITHER MIN. OR HR.)

						How long did (you/he/she) spendor were	•	do this self?
		No	Yes	How many times in past week?	Number of <i>days</i> since last done?	you/was he/she) near someone else? CIRCLE min OR hr	Yes	No
a.	Vacuuming?	N	Y>	times	days	min/hr	Y	N
b.	Sweeping indoors?	N	Y>	times	days	min/hr	Y	N
c.	Dusting?	N	Y>	times	days	min/hr	Y	N
d.	Woodworking?	N	Y>	times	days	min/hr	Y	N
e.	Metal working/welding?	N	Y>	times	days	min/hr	Y	N

F4. In the *past week*, did (you/he/she) spend any time....? or (were you/was he/she) near anyone who was....? (READ THE QUESTION FOR EACH ACTIVITY. IF RESPONDENT ANSWERS YES FOR ANY ACTIVITY, CIRCLE "Y" AND ASK DETAILED SUB-FOR EACH ACTIVITY. IF RESPONDENT ANSWERS YES FOR ANY ACTIVITY, CIRCLE "Y" AND ASK DETAILED SUB-QUESTIONS. CIRCLE "N" FOR NO.)

				**	ow many times in Number of days since		his yourself?
				How many times in past week?	Number of <i>days</i> since last done?	Yes	No
a.	Broiling, smoking, grilling, or barbecuing food?	N	Y>	times	days	Y	N
b.	Accidentally burning food while cooking?	N	Y>	times	days	Y	N
c.	Grilling with charcoal or gas?	N	Y>	times	days	Y	N
d.	Cooking with a wood-burning or coalburning stove?	N	Y>	times	days	Y	N

F5. During the *past week*, did you or anyone else park a car or other motor vehicle in: (READ CHOICES AND CIRCLE "Y" OR "N.")

		Yes	No	Not Applicable?
a.	a garage attached to your home?	Y	N	NA
b.	a detached garage?	Y	N	NA
c.	a carport attached to your home?	Y	N	NA

The next questions are about the food (you/he/she) ate, any medicines (you/he/she) took, and other health concerns. Again, we only want to know about the past week, while (you were/he/she was) taking part in the study.

F6. Please tell me the names of any medications (you/he/she) took during the past week. Include those drugs which a doctor prescribed, any (you choose/he/she chooses) (yourself/himself/herself) "over the counter", and any herbal or home medications. (PROBE FOR MEDICATIONS IN THE CATEGORIES LISTED. CIRCLE "N" FOR NO AND "Y" FOR YES. IF RESPONDENT ANSWERS YES TO ANY CHOICE, LIST TYPES OF YES. IF RESPONDENT ANSWERS YES TO ANY CHOICE, LIST TYPES OF DETAILED SUB-QUESTIONS. ASK TO SEE MEDICATION CONTAINERS AND FILL IN PRESCRIBED OR RECOMMENDED DOSE IN MG. IF NO WRITTEN INFORMATION IS AVAILABLE, PROBE FOR DOSE IN MG OR OTHER APPROPRIATE UNITS.)

Me	edication	No	Yes	How many times in past week?	Average Dose
a	Diuretics?	N	Y>	times times times	
b.	Chelating Agents (EDTA, Calcium Disodium, Versenate, Succimer, or Chernet)?	N	Y>	times times times	
c.	Antacdids (Tums, Rolaids)?	N	Y>	times times times	
d.	Hormones (thyroid medication, birth control pills)?	N	Y>	times times times	
e.	Other?	N	Y>	times times times times times times	

F7. Please tell me whether (you/he/she) took any vitamins or mineral supplements during the past week (PROBE FOR MINERAL SUPPLEMENTS IN THE CATEGORIES LISTED AND ANY OTHER VITAMINS OR MINERAL SUPPLEMENTS. CIRCLE "N" FOR NO AND "Y" FOR YES. IF RESPONDENT ANSWERS YES TO ANY CHOICE, LIST TYPES OF VITAMINS AND MINERALS, INCLUDING BRAND NAMES IN FIRST COLUMN, AND ASK DETAILED SUB-QUESTIONS. ASK TO SEE VITAMIN CONTAINERS AND FILL IN PRESCRIBED OR RECOMMENDED DOSE IN MG. IF NO WRITTEN INFORMATION IS AVAILABLE, PROBE FOR DOSE IN MG OR OTHER APPROPRIATE UNITS.)

	Vitamin and mineral supplements:	No	Yes	How many times in past week?	Average Dose
a	Calcium supplement?	N	Y>	times	
b.	Selenium supplement?	N	Y>	times	
c.	Chromium supplement?	N	Y>	times	
d.	Multivitamims and all other vitamin and mineral supplements?	N	Y>	times	

ASK ONLY FOR FEMALES OVER 12. OTHERS GO TO F9.

F8.	Are you currently expecting a baby or nursing	g a baby? (CIRCLE "Y" OR "N.")
	Yes	Y
	No	N

ASK F9 ONLY IF RESPONDENT IS NOT MAINTAINING A FOOD DIARY. OTHERWISE GO TO QUESTION F10 .

F9. Did (you/he/she) eat the following foods last week, that is, while (you were/he/she was) participating in this study? (CIRCLE "N" FOR NO AND "Y" FOR YES. IF RESPONDENT ANSWERS YES TO ANY CHOICE, ASK DETAILED SUB-QUESTIONS.)

		NO	YES	How many times in past week?	Average Portion/Size
a	Broccoli cauliflower, or Brussels sprouts?	N	Y>	times	# cups
b.	Cabbage, cole slaw, or sauerkraut?	N	Y>	times	# cups
c.	Mustard greens, collars, or Swiss chard?	N	Y>	times	# cups
d.	Turnisp, or rutabagas?	N	Y>	times	# cups
e.	Grapefruit or grapefruit juice? (IF RESPONDENT IS LESS THAN 16 YEARS OLD, GO TO g.)	N	Y>	times	# cups
f.	Alcoholic drinks (beer, wine, liquor)?	N	Y>	times	# drinks
g.	Any foods that have been grilled, barbecued, flame broiled, smoked, charred, or blackened by burning?	N	Y>	times	# ounces

F10.	During the past week (were you/was he/she) on any kind of diet either to lose weight or for any other reason? (CIRCLE "Y" OR "N.")
	YES
F11.	What diet or diets (were you/was he/she) on? (READ CHOICES AND CIRCLE ALL THAT APPLY.)
	Weight loss or low calorie diet?
	Other (Specify:)9

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OMB Clearance #:2080-0053 Expires: July 31, 1998

NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY

24-HOUR FOOD

Participant Identification Number

[Place Label Here]

Public reporting burden for this collection of information is estimated to average hours (or minutes) per response, and to require hours recordkeeping. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Chief, Information Policy Branch 2136, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.
INTERVIEWER/TECHNICIAN ID:
Date Completed:/

FOR PARTICIPANTS LESS THAN 10 YEARS OLD, A PARENT OR GUARDIAN SHOULDPROVIDE ASSISTANCE, AS NEEDED, IN COMPLETING THE FOOD DIARY.

INSTRUCTIONS

- (1) We want you to list all of the foods, beverages, or drinking water you or this child eat(s) or drink(s) from midnight to midnight.
- (2) Every time you or this child eat(s), write down the name of the meal (breakfast, lunch, dinner, snack).
- (3) Then write down on a separate line the (brand/generic) name of every food, or beveragethat you or this child eat(s) or drink(s).
- (4) For food mixtures such as stews or potpies, please write down the major kinds of foods in the mixture. Use the lines immediately below the one on which the name of the mixture is entered. In food mixtures, the component ingredients can be identified, for example—the type of meat in a stew—beef, lamb, venison, etc.
- (5) For beverages (including water), write down how many cups or glasses that you or this child drink(s). Estimate equivalent measures of water or other beverages taken from a fountain or large container. Don't forget your second and third cups of coffee or tea, or refills at a restaurant.

NHEXAS FOOD DIARY FOLLOW-UP -DAY 1 [NOTE: THE 24-HOUR FOOD DIARY WILL CONTAIN SIMILAR ENTRIES FOR EACH DAY ON WHICH DUPLICATE DIET SAMPLES ARE COLLECTED.]

	DATE: TIME:		FOR INTERVIEWER		
END D	ATE: TIME:			USE ONLY	
Meal	PLEASE LIST ALL FOODS, BEVERAGES, AND VITAMINS THAT YOU OR THIS CHILD EAT(S) ORDRINK(S) AND HOW MANY OF EACH ITEM	How Many	Portion Size	Cooking Method	Non- Retail Source
Lunch	EXAMPLE: CHEESEBURGER	1			
	EXAMPLE: SALAD WITH LETTUCE AND TOMATOES	1			
	EXAMPLE: WATER	2 glasses			

CONTINUE ON BACK IF YOU HAVE MORE FOODS TO LIST.

NHEXAS FOOD DIARY FOLLOW-UP -DAY 1

			FOR INTERVIEWER USE ONLY		
Meal	PLEASE LIST ALL FOODS, BEVERAGES, AND VITAMINS THAT YOU OR THIS CHILD EAT(S) OR DRINK(S) AND HOW MANY OF EACH ITEM	How Many	Portion Size	Cooking Method	Non-Retail Source

OMB Clearance #: 2080-00553 Expires: July 31, 1998

NATIONAL HUMAN EXPOSURE ASSESSMENT SURVEY

FOOD DIARY FOLLOWUP

Participant Identification Number

[Place Label Here]

Public reporting burden for this collection of information is estimated to average hours (or minutes) per response, and to require hours recordkeeping. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Chief, Information Policy Bran 2136, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460; and to the Office Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.	g nch,
INTERVIEWER/TECHNICIAN ID:	
Date Completed:/ July 14, 19) 95

COMPLETE ON SAME DAY SAMPLES ARE COLLECTED DATE:		1//	2//	3 / /	4//
FD1.	Was breakfast eaten? (OBSERVE FROM DIARY AND CIRCLE "Y" OR"N".)	ΥN	ΥN	ΥN	ΥN
FD2.	Where was (your/his/her) breakfast prepared and eaten? (READ CHOICES AND CIRCLE "P" FOR PREPARED AND "E" FOR EATEN.) a. Home	PE PE PE PE	PE PE PE PE	PE PE PE PE	PE PE PE PE PE
FD3.	How often (do you/does he/does she) eat a breakfast like the one you described in the diary? (READ CHOICES AND ENTER ONE RESPONSE LETTER FOR EACH DAY OF FOOD COLLECTION.) a. 6 or 7 times per week				
FD4.	Was lunch eaten? (OBSERVE FROM DIARY AND CIRCLE "Y" OR "N.")	ΥN	ΥN	ΥN	ΥN
FD5.	Where was (your/his/her) lunch prepared and eaten? (READ CHOICES AND CIRCLE "P" FOR PREPARED AND "E" FOR EATEN.) a. Home	PE PE PE PE	PE PE PE PE PE	P E P E P E P E P E	PE PE PE PE
FD6.	How often (do you/does he/does she) eat a lunch like the one you described in the diary? (READ CHOICES AND ENTER ONE RESPONSE LETTERFOR EACH DAY OF FOOD COLLECTION.) a. 6 or 7 times per week				
FD7.	Was dinner eaten? (OBSERVE FROM DIARY AND CIRCLE "Y" OR "N.")	ΥN	ΥN	ΥN	ΥN
FD8.	Where was (your/his/her) dinner prepared and eaten? (READ CHOICESAND CIRCLE "P" FOR PREPARED AND "E" FOR EATEN.) a. Home	PE PE PE PE	PE PE PE PE	PE PE PE PE	PE PE PE PE PE
FD9.	How often (do you/does he/does she) eat a dinner like the one you described in the diary? (READ CHOICES AND ENTER ONE RESPONSE LETTER FOR EACH DAY OF FOOD COLLECTION.) a. 6 or 7 times per week				

	COMPLETE ON SAME DAY DAY: SAMPLES ARE COLLECTED DATE:		2 / /	3 / /	4 / /
FD10.	Please think back. Were there any foods or beverages that you could not or did not collect for use? (LIST IDENTITY, SOURCE, AND AMOUNT OF EACH MISSING FOOD AND THE DAY IT WAS NOT COLLECTED.) a. At Breakfast	1 / / Y N	YN	YN	YN
	b. At Lunch	ΥN	ΥN	ΥN	YN
	c. At Dinner				
	d. For Snacks - include beverages such as coffee or tea	YN	YN	YN	YN
		Y N	Y N	ΥN	YN
FD11.	Did (you/he/she), for any reason, eat more or less food than usual? (READCHOICES AND ENTER a b, OR c .) a. More food than usual> CONTINUE b. Less food than usual> CONTINUE c. Same as usual> GO TO FD13				
FD12.	Because of: (READ CHOICES AND CIRCLE ALL THAT APPLY.) a. Travel or vacation	a b c d e f g h	a b c d e f g h	a b c d e f g h	a b c d e f g h
FD13.	Did (you/he/she), for any reason, eat different foods than (your/his/her) usual diet? (CIRCLE "Y" OR "NO")	YN	YN	ΥN	ΥN
FD14.	If yes, was that because: (READ CHOICES AND CIRCLE ALL THAT APPLY.) a. Travel or vacation b. Weight control diet c. Illness or medical condition d. Work or school schedule e. Entertainment or social occasion f. Because of the food collection study g. Ease/quickness of preparation h. Other Day 1: Day 2: Day 3: Day 4:	a b c d e f g h	a b c d e f g h	a b c d e f g h	a b c d e f g h